HW#4H: Solve Quad Eq’n Sq. Roots & Quadratic Formula - Honors Geometry

Due Date: Wednesday, Sept. 10th, 2014

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_

**Failure to show work on all problems or use complete sentences will result in a LaSalle.**

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| 25) What is the ***sum*** of the roots of the equation? | 26) Find the zeros of the polynomial function: | 27) What is the ***sum*** of the roots of the equation? |

Use the quadratic formula to solve the equation. Round your solutions to the nearest hundredth.

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| 13) Graph:    a. What is the vertex? \_\_\_\_\_\_  b. What is the axis of symmetry? \_\_\_\_\_\_  c. What are the “zeros” or “roots”? \_\_\_\_\_\_\_\_\_\_ | 14) How would the graph of the function y = x2 + 2 affected if the function were changed to y = x2 – 5?  A. The graph would shift 5 units up.  B. The graph would shift 5 units down.  C. The graph would shift 7 units down.  D. The graph would shift 7 units to the right.  E. The graph would shift 7 units up. |
| 15) Which of the following quadratic equations have a solution set of x = {-4, 5}?   1. x2 – x – 20 2. x2 + x – 20 3. x2 – 9x – 20 4. x2 + 9x + 20 5. x2 – x + 20 | 16) The expressions ***3n2*** and ***25 – 10n*** are equivalent when ***n*** is equal to what value(s)? |